

(12) **United States Patent**
Li

(10) **Patent No.:** **US 9,636,090 B2**
(45) **Date of Patent:** **May 2, 2017**

(54) **MULTIFUNCTION ASPIRATION BIOPSY
DEVICE AND METHODS OF USE**

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(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 1012 days.

(21) Appl. No.: **13/440,038**

(22) Filed: **Apr. 5, 2012**

(65) **Prior Publication Data**

US 2012/0191008 A1 Jul. 26, 2012

Related U.S. Application Data

(63) Continuation-in-part of application No. 11/688,276, filed on Mar. 2, 2007, now Pat. No. 8,152,738.

(60) Provisional application No. 61/629,022, filed on Nov. 12, 2011, provisional application No. 61/516,971, filed on Apr. 11, 2011, provisional application No. 60/852,798, filed on Oct. 19, 2006, provisional application No. 60/846,036, filed on Sep. 20, 2006, (Continued)

(51) **Int. Cl.**

A61B 10/00 (2006.01)
C12M 1/00 (2006.01)
A61B 10/02 (2006.01)
A61M 5/32 (2006.01)
A61B 50/36 (2016.01)
A61M 5/31 (2006.01)

(52) **U.S. Cl.**

CPC **A61B 10/0283** (2013.01); **A61B 10/0096** (2013.01); **A61B 50/362** (2016.02); **A61M 5/3205** (2013.01); **A61M 5/3276** (2013.01); **A61M 2005/3106** (2013.01)

(58) **Field of Classification Search**

CPC A61B 10/0283; A61M 2005/3117; A61M 2005/3118; A61M 2005/312; A61M 39/20
See application file for complete search history.

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(57)

ABSTRACT

One embodiment of a multifunction aspiration biopsy device includes a hub having a chamber for receiving a collected specimen, a vacuum source in communication with the hub chamber, a needle detachable from the hub and having an outlet in communication with the hub chamber, and a cover extending over a portion of the needle outlet for directing a specimen collected through the needle into the hub chamber in a direction that differs from a longitudinal axis of the needle. The hub chamber with collected specimen may be separated from the vacuum source and the needle and the specimen may be triaged within the hub chamber. Various embodiments of a collection container for receiving used needles are also disclosed.

13 Claims, 30 Drawing Sheets

